

Appl. No. 10/668,903
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In response to the Office Action dated April 23, 2004

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AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph at page 8, line 20 with the following rewritten paragraph.

The present invention provides the transfective LCD device 40 with an optical supplement structure including the first polarizer 50I, the optical compensation plate 58 and the second polarizer 50II. Preferably, the optical compensation plate 58 is a half-wave plate (HWP) having a phase retardation of $\lambda/2$. The first polarizer 50I has a transmissive axis (absorption axis) perpendicular to a transmissive axis (absorption axis) of the second polarizer 50II, and the optical compensation plate 58 has a ~~short~~ slow axis disposed at a 45° angle to the transmissive axis of the second polarizer 50II. Moreover, the twisting angle of the LC molecules in the LC layer 46 is 0°~50°. The patterns of the transparent electrode layer 52, the passivation layer 54, and the reflective electrode layer 56 and the cell gap design for the LC layer 46 are not limited in the present invention.

Please replace the paragraph at page 9, line 6 with the following rewritten paragraph.

Additionally, the optical supplement structure can effectively improve the light recycling rate between the reflective area R and the backlight device 60. FIG. 4 is a cross-section illustrating the light recycling effect between the reflective area R and the backlight device 60 according to the present invention. When an incident light 62 emitted from the backlight device 60 passes through the second polarizer 50II and the optical compensation plate 58 to reach the reflective electrode layer 56, the incident light ~~63~~ 62 is reflected from the reflective electrode layer 56 serving as a reflective plate to generate a reflective light 64. Then, after passing the optical compensation plate 58 and the second polarizer 50II, the reflective light 64 is recycled. With regard to the light recycling effect between the backlight device 60 and the reflective area R, the incident light 62 and the reflective light 64 completely passes through the optical compensation plate 58 twice. Compared with the conventional LCD device having two retardation films between the reflective area and the backlight device, the present invention provides one optical compensation plate 58 between the reflective area R and the backlight device 60 to reduce the light absorptivity of the incident light 62 and the reflective light 64, resulting in a higher light recycling rate. This can improve the luminescent property of the transfective LCD device 40 without requiring additional power to increase the light intensity of the backlight device 60.